

ABSTRACT

This invention relates to an MSM type
5 photo-detection device designed to detect incident
light and comprising reflecting means (2) superposed on
a support (1), to form a first mirror for a Fabry-Pérot
type resonant cavity, a layer of material (3) that does
not absorb light, an active layer (4) made of a
10 semiconducting material absorbing incident light and a
network (5) of polarization electrodes collecting the
detected signal. The electrodes network is arranged on
the active layer and is composed of parallel conducting
strips at a uniform spacing at a period less than the
15 wavelength of incident light, the electrodes network
forming a second mirror for the resonant cavity, the
optical characteristics of this second mirror being
determined by the geometric dimensions of the said
conducting strips. The distance separating the first
20 mirror from the second mirror is determined to obtain a
Fabry-Pérot type resonance for incident light between
these two mirrors.

Figure 1